

ACTIVE WINDOW MANAGEMENT FOR REORDER BUFFER

Abstract of the Disclosure

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The present invention relates to storage devices in computer systems and in particular, it relates to an improved method and system for efficiently operating buffer memories. A considerable performance gain can be achieved by autonomous determination of relevant status information by the respective entry itself. This is done with combinatorial logic, preferably. A simple combinatorial circuit is added to the buffer itself which automatically generates the active window status information as required for the plurality of processes like renaming registers, issuing and committing instructions as an output associated with a respective buffer entry.